DETAILED DESCRIPTION OF THE INVENTION

This present invention is a manually operated device designed for use in cutting a potato into a thin continuous spiral slice and is illustrated in Drawing 1/1. Drawing 1/1 Fig. 1 is a left-hand side view of the invention and Fig. 2 is a topside view of the invention.

It utilizes a fixed blade 1 and rotates a potato with a threaded drive spindle 2 with driver 3 held in position by lock nut 12 to move the potato forward into the blade 1 by use of a rotated crank handle 4. The blade 1 is angled ~~from 15 degrees to 25~~ 20 degrees from perpendicular to the centerline of the drive spindle and [[this]] the blade 1 has a hole through which a lock nut 15 secured pilot pin 5 extends to provide support for the potato end opposite the driver 3. Drive support 7 has a right angled bottom and tubular top which has a window opening 17 allowing for the drive nut 10 to contact the drive spindle 2. The blade holder 6 and the drive support 7 are attached to a base 8 made of wood or a composite material which has support legs 9 to stabilize it's use on a smooth flat surface and counter stop arms 14 to stabilize against the surface edge.

DETAILED DESCTIPTION OF THE INVENTION CONTINUED

An internally threaded drive nut 10 attached to drive nut guide 11 is engaged against the threaded drive spindle 2 to effect a forward thrust of the potato as it rotates into the blade 1. The drive nut 10 is actuated by placing a finger into an opening in the spring 13 mounted drive nut guide 11 with thumb pressure against the top of the drive nut guide 11 tilting the drive nut 10 into position against the threaded spindle 2 through the window opening 17 in the drive support 7 .

In use the invention is placed on a smooth flat surface with the counter stop[[s]] arms14 against the edge of the surface and the handle 4 toward the operator. The operator using the right hand grasps the handle 4 and pulls it causing the driver 3 to be moved to the extreme rear position away from the pilot pin 5 and blade 1. A potato is placed against the pilot pin 5 and gently pushed forward so the potato is fully onto the pilot pin 5 and against the blade 1. The opposite end of the potato is positioned directly in front of the driver 3 .

DETAILED DESCRIPTION OF THE INVENTION CONTINUED

The handle 4 is pushed forward until the driver 3 teeth 16 fully penetrate the potato. The left-hand second finger is positioned in the drive nut guide 11 and the first finger placed behind the drive support 7. The thumb is placed on top of the drive nut guide 11 directly over the drive nut 10 and light pressure is applied so the drive nut 10 and drive spindle 2 threads are fully engaged. Light pressure is maintained on the drive nut 10 with the thumb and the right hand then turns the handle 4 in a clockwise direction. After a few revolutions of the handle 4 the potato will contact the blade 1 and start the spiral cut. The handle 4 continues to be turned until the potato is cut and the visible part of the driver 3 is approximately one half inch from the blade 1. Light pressure is felt by the hand on the crank handle 4 as the drive spindle 2 contacts the pilot pin 5 and the blade support 6 starts to deflect.

The thumb is released from its position on the drive nut guide 11 and the drive nut 10 disengages from the drive spindle 2 stopping forward movement of the potato. The handle 4 is pulled backward and the driver 3 is then away from the pilot pin 5.

The stub end of the potato is then carefully removed from the driver 3. This completes the operation of the invention in the cutting of a potato into a thin continuous spiral slice.